#### **AKDENIZ UNIVERSITY**

# **Computer Engineering Department**

## CSE 211 Digital Design (2024-2025 Fall)



#### **Lab04 – Combinational Logic – 25.11.2024**

	Student No	Student Full Name	Group No
1			
2			
3			
4			

### <u>Lab Study 1 – 3x8 Decoder</u>

Design and implement a 3-to-8 decoder circuit using the 74138 IC and analyze its functionality. Then, fill in the truth table below.

INPUTS				OUTPUTS (LEDs)							
A	В	C	E	D0	<b>D</b> 1	D2	D3	D4	<b>D5</b>	<b>D6</b>	<b>D7</b>
X	X	X	0								
0	0	0	1								
0	0	1	1								
0	1	0	1								
0	1	1	1								
1	0	0	1								
1	0	1	1								
1	1	0	1								
1	1	1	1								

